ABSTRACT

It is aimed to increase the discharge rate of an internal gear pump by making it possible to freely adjust the eccentricity e between the inner and outer rotors.

Each tooth of the inner rotor includes a tooth bottom 4 defined by hypocycloidal curves, an engaging portion 3 to be brought into engagement with the outer rotor and defined by involute curves, and a tooth top 2 defined by a predetermined curve such as a part of a circle or an oval or an epicycloidal curve.